

Discover the power of MosaicDX's Bartonella IgG Detect IFA profile.

This top-tier IFA IgG serology test uses authentic cell-cultured clinical isolates to confirm antibodies against the four most common *Bartonella* species: *B. henselae*, *B. vinsonii*, *B. berkhoffii*, and *B. koehlerae*.

What is *Bartonella*?

Bartonella are gram-negative bacteria that can cause infections in humans and animals. They can live and reproduce both inside and outside of host cells. *Bartonella* are transmitted by vectors such as ticks, fleas, spiders, and lice. They can also be spread through direct contact with infected animals.

How can someone be exposed?

Exposure to infected fleas, ticks, spiders and lice, or companion and wild animals can cause Bartonellosis. *Bartonella henselae*, the species responsible for Cat Scratch Disease, can be present on a cat or kitten's claw or mouth and spread through a scratch, bite, or lick.

Table Hosts and Vectors for *Bartonella*

<i>B. henselae</i>	<i>B. quintana</i>
<i>B. koehlerae</i>	<i>B. vinsonii</i> ssp. <i>berkhoffii</i>
- Cat - Macaques - Ticks - Horses	- Dogs - Foxes - Spiders - Human Body Lice
	- Human - Fleas - Lice

Why Test for *Bartonella*?

Bartonella can cause severe, life-threatening infections or symptoms in humans and animals. Early detection makes the infection treatable, which can prevent chronic illness.

While Bartonellosis is often described as an acute illness, more and more evidence shows that it can become chronic, leading to persistent and recurring symptoms. *Bartonella* bacteria can evade the immune system by hiding in red blood cells and endothelial cells, allowing them to persist in the body. Chronic Bartonellosis can result in symptoms such as fever, fatigue, headaches, and neurological issues.

Methodology: Indirect Immunofluorescence Assay (IFA)

Bartonella IgG Detect – IFA utilizes authentic cell-cultured clinical isolates for *Bartonella* species that most commonly affect humans in North America:

B. henselae *B. berkhoffii*
B. vinsonii *B. koehlerae*

Serum samples are serially diluted in a sample buffer, and the test results are reported as titers.



Specimen Type: Serum

Discover the Power of MosaicDX's Bartonella IgG Detect Profile

- **Confirms prior exposure and potential current infection:** Immunofluorescence Assay (IFA) IgG Antibody results reported in titers.
- **Broad IgG antibody coverage:** Confirms exposure to the four main species affecting humans in North America.
- **Accurate:** Provides precise, semi-quantitative antibody levels and accurate titers.
- **Sensitive and Specific:** Uses cell-culture-derived antigens from clinical isolates, not synthetic. A 2020 NCSU study showed 97% specificity.
- **Minimizes cross-reactivity:** Ensures reliable and specific results, addressing common challenges in serological testing.

What Patients Might Benefit From the Bartonella IgG Detect - IFA Profile?

Patients with chronic illness not improving and past/present exposure to ticks, fleas, lice, spiders, or companion animals

Symptoms include:

- Rash "striae"
- Swollen lymph nodes in the head, neck, arms, and along the shins
- Psychiatric symptoms (rage)
- Neurological manifestations
- Flu-like illness
- Low-grade fever
- Profound fatigue
- Headaches
- Muscle pain
- Body aches
- Abdominal pain
- Changes in bowel habits
- Eye and vision problems (such as floaters, light sensitivity, and blurry vision)
- Anxiety and depression
- Facial pain and tooth issues
- Bladder and pelvic pain
- Cardiovascular issues (endocarditis)
- Seizures

Combinations and Complementary Test Recommendations

Tickborne BBB Direct Detect + Bartonella IgG Detect IFA

Combining direct and indirect testing methods—specifically for *Bartonella* infection—enhances diagnostic accuracy, especially for patients with complex clinical presentations.

MosaicDX recommends maximizing diagnostic data by testing for both antibodies (indirect) and DNA evidence of infection (direct) for *Bartonella*, as each test method provides critical support. Tickborne BBB Direct Detect dPCR includes tests for *Borrelia*, *Babesia* and *Bartonella* at a genus level.

Lyme Borrelia Direct Detect - Nanotrap + Bartonella IgG Detect - IFA

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To learn more please visit Mosaicdx.com



Find references at [MosaicDX.com/Test/ Bartonella-IgG-Detect-IFA](http://MosaicDX.com/Test/Bartonella-IgG-Detect-IFA)

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